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⌘ Title: **JP2001002605A2: PRODUCTION OF DIOLS**

⌘ Country: **JP Japan**

⌘ Kind: **A2 Document Laid open to Public inspection**

⌘ Inventor: **KONISHI MITSUO;  
UENO EIZABURO;**

⌘ Assignee: **ASAHI CHEM IND CO LTD**  
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⌘ Published / Filed: **Jan. 9, 2001 / June 17, 1999**

⌘ Application Number: **JP1999000170737**

⌘ IPC Code: **C07C 29/149; B01J 23/889; C07C 31/20; C07B 61/00;**

⌘ Priority Number: **June 17, 1999 JP1999000170737**

⌘ Abstract:

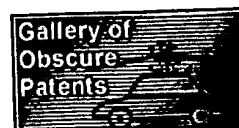
**PROBLEM TO BE SOLVED:** To obtain a mixture of butanediol and a specific diol in high yield by allowing a mixture of succinic acid and a specific dicarboxylic acid to react with hydrogen in the presence of a specific catalyst and water.

**SOLUTION:** A mixture of (A) succinic acid and (B) a dicarboxylic acid of the formula: HOOC-R-COOH (R is a 3-20C saturated divalent hydrocarbon) and (C) hydrogen are allowed to react with each other in the presence of (D) a catalyst prepared by carrying one or more metals selected from ruthenium and tin, rhenium, molybdenum, palladium, silver and nickel supported by carbon carrier that is preliminarily treated with hydrogen peroxide and/or ozone aqueous solution and (E) water under a pressure of 1-25 Mpa, at 100-300°C to obtain a mixture of 1,4-butanediol and a diol of the formula: HO-CH<sub>2</sub>-R-CH<sub>2</sub>OH. As a mixture of the component A and the component B, are cited preferably a mixtures of dicarboxylic acids including the component A, glutaric acid and adipic acid.

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⌘ Family: [Show 4 known family members](#)

⌘ Other Abstract Info: **CHEMABS 134(05)058223B CHEMABS 134(05)058223B DERABS C2001-303499 DERABS C2001-303499**



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**(54) PRODUCTION OF DIOLS**

(57) Abstract:

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